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**Please choose and complete one of the following tasks:**

#### **Option 1: File Extension Identification via WebSocket in Django**

Objective: Develop a WebSocket service using Django that allows a client to send a file to the server. The server will identify the file's extension and return this information to the client.  
  
Key Requirements:

* WebSocket Setup: Implement the WebSocket connection using Django Channels or an equivalent library.
* File Processing: Accept a file over the WebSocket, determine its extension, and communicate this back to the client.
* Security Measures: Address common security concerns to ensure safe file handling.
* Documentation: Thoroughly document the setup, usage, dependencies, and interaction with the WebSocket service.
* Assumptions: Note any assumptions made during the design and implementation process.

#### **Option 2: CRUD Operations for Borrowing Books**

Objective: Implement CRUD operations for a library management system focusing on the borrowing process, including the management of book borrow records.

Key Requirements:

* Model Design: Use the Book model and a BorrowRecord model for tracking borrowings, with fields for borrower details, borrow dates, and return dates.
* Borrowing and Returning: Enable borrowing of available books and marking them as returned, with system updates.
* Borrow Records Management: Create endpoints for managing and filtering borrow records.
* Security Measures: Ensure API security focusing on authentication and authorization.
* Documentation: Provide comprehensive documentation for the API endpoints, including parameters, usage examples, and expected responses.
* Assumptions: Document any assumptions that influenced your approach.

#### **Submission Guidelines**

* Submit your solution through a public repository on GitHub, GitLab, or an equivalent platform. Ensure your repository is organized and includes a README with setup and execution instructions.
* Choose only one of the tasks above to complete. Ensure your repository clearly indicates which task you selected.
* Include in your README an overview of the chosen task, detailed setup guides, execution instructions, and any necessary documentation.

Your submission will showcase your problem-solving skills, coding expertise, and your approach to software development best practices. We look forward to reviewing your innovative solution. Please submit your repository link via **GitHub, GitLab, or an equivalent platform.**